

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,463	08/20/2003	Paul C. Goodley	10031215	5934
75	90 06/16/2004		EXAM	INER
AGILENT TECHNOLOGIES, INC. Legal Department, DL429	FERNANDEZ, KALIMAH			
	perty Administration		ART UNIT	PAPER NUMBER
P.O. Box 7599			2881	
Loveland, CO 80537-0599			DATE MAILED: 06/16/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(a)			
		Application No.	Applicant(s)			
Office Action Occurrence		10/644,463	GOODLEY ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Kalimah Fernandez	2881			
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet with th	e correspondence address			
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a representation of the provided provided above, the maximum statutory perior to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mained patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be eply within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS for ute, cause the application to become ABANDO	e timely filed days will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on					
2a)[This action is FINAL . 2b)⊠ Th	nis action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-37</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrawith Claim(s) is/are allowed. Claim(s) <u>1-37</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	rawn from consideration.				
Applicat	ion Papers					
10)⊠	The specification is objected to by the Examination The drawing(s) filed on 20 August 2003 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the	e: a) accepted or b) objected or b)	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority (ınder 35 U.S.C. § 119					
12) [a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a line	nts have been received. nts have been received in Applic iority documents have been rece eau (PCT Rule 17.2(a)).	ation No sived in this National Stage			
Attachmen	t(c)					
_	te of References Cited (PTO-892)	4) Interview Summ	ary (PTO-413)			
2) Notice	be of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 or No(s)/Mail Date <u>8-20-03</u> .	Paper No(s)/Mai				

Application/Control Number: 10/644,463 Page 2

Art Unit: 2881

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 2. Claims 1-37 are rejected under 35 U.S.C. 102(e) as being anticipated by US Pat No 6,627,882 issued to Schulz et al.
- 3. As per claims 1,7,9, and 13, Schulz et al disclose an electrospray source of ions for an analyzer (col.8, lines 17-20).
- 4. Schulz et al disclose a reservoir (242) for containing a liquid (col.17, line 63-col.18, line 3).
- 5. Schulz et al disclose a manifold for containing a liquid, the manifold having a plurality of nozzles (col.8, lines 21-31), each of the nozzles having a channel and a plurality of openings operatively connected to the channel (see fig. 5a-b).

Application/Control Number: 10/644,463

Art Unit: 2881

6. Schulz et al disclose a conduit connecting the reservoir (242) to the manifold so that liquid in the manifold can flow from the reservoir through the channel of each of the nozzles and through the openings (col.17, lines 45-50).

Page 3

- 7. Schulz et al disclose a counter electrode and the openings, the electrical potential difference and the size of the openings being sufficient to enable the liquid to be ejected from the openings in droplets and to enable ions to be ejected from the openings in droplets and to enable ions to be ejected from the droplets (col.4, lines 52-67;col.5, lines 37-65; col.18, lines 3-7).
- 8. Moreover, Schulz et al disclose tips (col.17,lines 50-51).
- 9. As per claims 2,15,21, 26, 32, and 35 Schulz et al disclose a plurality of reservoirs and a plurality of conduits for connected the reservoirs to the manifold (col.17, lines 35-44).
- 10. As per claims 3, 11,16,22, 27 and 33, Schulz et al disclose evenly spaced nozzles (tips) (see fig. 4; col.20, lines 27-31).
- 11. As per claims 4, 19, 31 and 36 Schulz et al disclose an electrode (col.11, lines 30-32; col.12, lines 1-7; col.18, lines 3-7).

Application/Control Number: 10/644,463

Art Unit: 2881

12. As per claims 5, 8, 10,14 and 25, Schulz et al disclose the openings being 20 micrometers (col.20, lines 57-60).

Page 4

- 13. As per claims 6, 12,23, and 28 Schulz et al disclose each nozzle having a longitudinal axis and central longitudinal axes of the nozzles converge to an area in front of the nozzles (see fig. 4).
- 14. As per claims 17-18 and 29-30, Schulz et al disclose an upper housing (252) connected to the conduit and a lower housing connected to the upper housing and containing the tips, wherein the lower housing has a plurality of apertures and a plurality of tubes (see fig. 5a-b).
- 15. As per claims 20 and 34, Schulz et al disclose conveying liquid from a reservoir of the liquid from a reservoir of the liquid to a manifold (col.17, line 66-col.18, line 3); conveying the liquid from the manifold to a plurality of openings partly and toward a counter electrode assembly having an ion passageway (see fig.4); producing an electrical potential difference between the fluid at the openings and the counter electrode (col.18, lines 3-7;col.8, lines 34-39;col.5, lines 37-65); causing the liquid to be ejected from the openings in droplets and ions to be ejected from the droplets (col.12, lines 17-29). Further, Schulz et al disclose a mass spectrometer detector (col.12, lines 25-29).

Application/Control Number: 10/644,463

Art Unit: 2881

16. As per claim 24, Schulz et al disclose a mass spectrometer detector (col.12, lines 25-29).

Page 5

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US Pat No 6,737,026 issued to Bergh et al; US Pat No 6,454,193 issued to Busicke et al; US Pat No 6,465,776 issued to Moini et al; US Pat No 6,501,073 issued to Mychreest et al; and US Pat No 6,498,343 issued to Apffel et al are considered relevant to the claimed invention. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kalimah Fernandez whose telephone number is 571-272-2420. The examiner can normally be reached on Mon-Tues 6:30-3:30; Wed-Thurs 8-5 and Fri.9am-6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R Lee can be reached on 571-272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/644,463 Page 6

Art Unit: 2881

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

kf

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2000